

## March of Dimes Raising Funds To Fight Polio

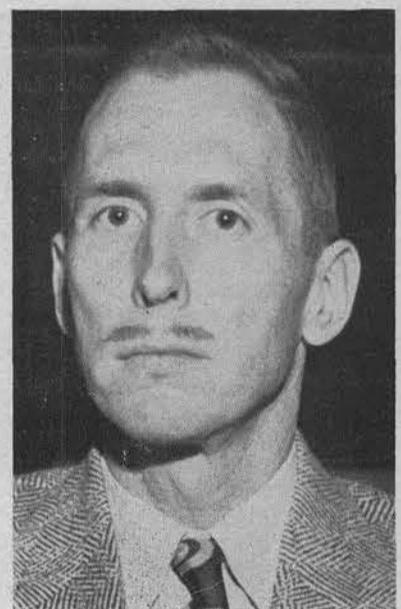
The 1953 March of Dimes campaign in Albuquerque is underway and will continue through the month of January. Facing the National Foundation for Infantile Paralysis this year is the task of making up a \$7,000,000 deficit incurred by last year's record-breaking polio epidemic.

The drive is known as The March of Dimes, but donors are reminded that it will take larger contributions than 10-cent pieces to put the foundation in a strong position to fight the disease.

It is expected that the expenditures for the National Foundation this year will be the highest on record. In addition to the estimated 50,000 new polio patients in 1952 there were 46,000 from previous years who received treatment.

## Sandian Named to Serve on Defense Dept. Committee

J. C. Starks, formerly Department Manager of 1810, has been selected by the Defense Department's Research and Development Board to serve as executive director of its



J. C. Starks

Committee on Atomic Energy in Washington, D.C. He is now on leave of absence from Sandia Corporation. Craig came to Sandia in September, 1948.

The functions of Department 1810 have been transferred to the 1900 organization. The Technical Library Section, headed by Phil Leslie, is now in J. K. Merillat's Division 1921, and the other functions of the department have been assumed by 1922, headed by L. M. Jercinovic.

## Wartime Rocket Work to Be Related By Dr. C. N. Hickman

"Rocket Developments During World War II" will be the subject of a talk by Dr. C. N. Hickman, 1400, at a joint meeting of the American Institute of Electrical Engineers and the American Society of Mechanical Engineers on Friday, Jan. 23. The meeting will be held at 7:30 p.m. in the Hospitality Room of the Southern Union Gas Co.

### Holds Many Patents

Dr. Hickman has drawn the material for the talk from his experience in the development of the bazooka and recoilless guns during World War II. He holds many basic patents in this field.

A graduate of Winona College, Dr. Hickman has an A.B. degree in mathematics and physics and he received his M.A. and Ph.D. degrees from Clark University.

### Visitors Invited

In addition to his many technical accomplishments Dr. Hickman is active in archery, photography, magic and archeology.

All members of the two societies have been urged to attend and to bring guests. All others interested are invited to attend.

# SANDIA BULLETIN

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SANDIA CORPORATION, ALBUQUERQUE, N.M.

JAN. 16, 1953

## Discovery of Relics Reveals New Facts Of Mogollon Tribe, Experts Study Find

The following article is an account of a discovery made by a Sandian which has brought forth great interest from southwestern anthropologists. The great significance of the "find" may not be known for a long time, but it promises to revise the history of an early Indian tribe.

More than a thousand years ago a group of people, the ancestors of our present day Indians, gathered on the banks of the Rio Grande near what is now Socorro to hunt and trade.

These were the Mogollon Indians and, while their one-time existence had been confirmed, their presence so far north of their habitual stamping grounds was unknown until just recently. This fact was discovered quite accidentally by Maurice Gowdey, and it has led to considerable excitement among anthropologists who study the Southwest's early people.

### Accidental Find

About 12 miles north of Socorro, near the little hamlet of San Acacia, highway 85 cuts through an area of drifting sand dunes. It was there that Maurice, who works in 1232, took his family for a Sunday afternoon recently. With them was his sister-in-law, Verona Cooper, 4222 (1641), and her friend, Maridel Dyke, 1284.

It was while strolling through the dunes with his wife, Sidney, and children, the twins Jean and John, 6, and Diana, 4, that the discovery was made.

They had rounded one of the huge dunes when they saw ahead of them an area of soft, springy, black soil. Lying there in plain sight as if they'd been left there only a few moments ago, were a number of valuable Indian relics. Pieces of broken pots, a metate and a mano used in the grinding of corn, plus an arrow head.

### Collect Specimens

Later Maurice reasoned that the

shifting sands had somehow exposed an area of ground that would ordinarily have been covered over with earth for ages, thus laying bare the ancient camp site of the prehistoric Mogollons.

Everyone on the trip, including Maridel and Verona, collected pieces of the relics and, after returning to Albuquerque, Maurice, more out of curiosity than anything else, took them to the University of New Mexico's anthropology department. He was totally unprepared for the excitement they created.

It seems the dune area had been thoroughly combed for Indian artifacts many times without anything ever being found, so nothing would do but Maurice had to lead a pair of anthropologists to the spot. More artifacts were found on this trip and these and Maurice's finds were taken back to the University to be photographed, measured and sent to Arizona for study.

### Important Find

The anthropologists told Maurice the pot shards had been identified as Mogollon because of their shape, reddish-brown color and the fact that they were crude and undecorated. It was estimated that they were 900 to 1300 years old. The scientists explained that this plus three other previous finds outside of the accepted Mogollon sphere of activity points to the theory that this primitive culture was much more widespread and influential than had previously been suspected.

At first all this enthusiasm over some old broken pots was incomprehensible to Maurice, whose information on the subject was practically nil, but now he's caught the enthusiasm. Besides reading up on the ancient Indians he's planning to do a little prospecting for remnants of their culture during this summer. You see, he just found out his mountain cabin is right near the Sandia Mountain cave where the Sandia Man, oldest known American, was discovered years ago.



METATE AND MANO, the grinding stone (metate) and hand stone (mano) used by the ancient Indians to make corn meal, are displayed by the discoverer Maurice Gowdey and the two girls who helped make the find, Maridel Dyke (left) and Verona Cooper, his sister-in-law.

## Sandian Honored By AIEE for Paper On Radion Tube

A Sandia Corporation electrical engineer is one of two former students at the University of New Mexico who have received a prize for a technical paper by the American Institute of Electrical Engineers.

Arthur R. Engquist, 1262, with Richard S. Christy, whose home is



Arthur R. Engquist

Merrick, N.Y., both of whom graduated from the University last June, received second place honors for their paper, "Characteristics of the Radion Tube, Preliminary Report."

University of New Mexico Professor Ralph Tapy reported that the paper concerned a new radion tube developed at the University by Dr. Thomas L. Martin. The two engineers had worked with Dr. Martin on the tube.

The paper was first submitted to District Seven of the AIEE in St. Louis last Spring where it won first prize. All 10 districts of the engineering institute submitted winning papers to the national meeting. The award for the paper will be presented at the winter general meeting of the society in New York on Jan. 19.

## More Sandians Return From Armed Services

More than 35 Sandia Corporation employees have completed their military service since the outbreak of hostilities in Korea and have returned to work here.

Returnees during the past two weeks include:

Paul House, back at work in 2463 after nearly two years with the Marine Corps.

Avilio S. Aragon, formerly in 2414 and now back on the job after two years of Army service.

Albert Heimer, released from the Navy after one year of reservist duty, renewing friendships with co-workers in 2235.

Daniel M. McKnight, formerly in 5242, released from the Air Force after 22 months. Dan is now in 1916.

## Insurance Counselors Answer Large Variety of Questions in First Year

Sandia Corporation insurance counseling service celebrated its first birthday January 14 and in that one year has aided an average of five employees a day in their insurance, social security and similar problems.

Brothers Boyd and Bob Hoff, the office staff, have answered hundreds of queries ranging from "Do I have to pay Social Security tax for my



Bob and Boyd

baby sitter?" to "Can I get insurance on my dog?" (The answer to the first is "yes" if she works for you 24 days in one quarter and earns \$50 salary; the answer to the second is also "yes," but Boyd and Bob don't sell it, though they will tell you where you can buy it.)

### Most Common Question

The Hoff brothers have learned in their year here that not one person in 10 understands his Social Security benefits. Well versed in the intricacies of the Social Security act, our Insurance Counselors can explain to you what your benefits will be.

One of the most common questions brought to these two insurance experts is the query "what will my insurance, Social Security and Sandia Corporation Retirement Income Plan amount to in income when I retire?" "Most folks are pleasantly surprised when they hear the answer," Boyd says.

Boyd started the Insurance Counseling service when Sandia Corporation entered into contract with Minnesota Mutual Life Insurance Company last year. The purpose of

establishing the counseling service is to help employees in their own personal life insurance programs and make available life insurance which may be paid for through payroll deductions.

### Questions Welcomed

In August of last year Boyd was joined in the office by his brother, Bob, who had just completed a tour of duty with the Air Force. One of the two Hoffs is in their office in the Employee Services and Public Relations Building (T-301) during working hours. They also come to their office at other hours by appointment.

The Hoff brothers invite all employees who are seeking help with their insurance problems to come to pay them a visit. They remind all potential visitors that there are no strings attached and no obligations incurred from their office calls.

## Voice Recital to Feature Sandian Marilyn Langmyer

Marilyn Langmyer, 4222, will be featured in a vocal concert at 8:15 p.m. February 8 in the Coronado Club ballroom in the first of a series of Sunday night musicals.

Marilyn, a student of Giovanna D'Onofrio of Albuquerque, is a lyric soprano. She has appeared with the University of New Mexico Opera Workshop company here and in Santa Fe and has been acclaimed for her rich voice and delightful presentation. Joining Marilyn in several operatic and musical comedy duets in the February 8th recital will be Ruben Cobos, a professor in the language department at UNM.

The recital will be open to members of the Coronado Club and guests of Marilyn and Mr. Cobos. Among the ushers will be these Sandians: Mary Alice Withers, 1250, and Phyllis Fortner and Willa Beach, both of 1251.



# SANDIA BULLETIN

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Editor, Robert S. Gillespie  
Assistant Editors, William A. Jenkins, Maxine Ethridge

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Telephone Ext. 25253

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## Pitfalls Aplenty in Indian Lore

*The New York Times* comes to us with a wealth of information and from it we have gleaned a few comments on how a sharp-eyed shopper can find many choice bargains in Indian goods. New Mexico and Arizona are the source of some of America's most artistic handicraft products. Likewise, the newspaper points out, these two states are also headquarters for a trashy hodge-podge of tawdry knicknacks and spurious goods aimed at a quick tourist dollar.

There are two general types of handicraft sold in the Southwest and they are produced by Indians, Spanish-Americans and Mexican craftsmen. One type is comprised of collectors' items and generally articles in this category carry a higher price. The second type is the result of traders trying to meet varied demands and tastes of the tourists and consists of products showing excellent workmanship and material, but the type of articles which the Indians do not use themselves. Included are letter openers, key chains, pocketbooks, etc.

A visit to a museum in the Southwest is recommended as the best way to be able to recognize true Indian workmanship. Suggested for your visit is the New Mexico State Museum in Santa Fe or if you are going west stop in at the Museum of Northern Arizona at Flagstaff.

Another good way to learn about Indian handicrafts is to talk with some reputable dealers in the products. The Albuquerque Chamber of Commerce can lead you to them. A good dealer in whom you have confidence is always willing to tell you of the merits of various Indian goods.

You'll find that your purchases will be the best if you buy from legitimate dealers. The days of buying direct from the Indian are gone — your best purchases are no longer from the street-corner salesman. In time gone by a sure way to get an honest-to-goodness blanket was to buy one "off an Indian's back." Today you are liable to get a mail order catalog model, for their best products go to the dealers who will sell them to you.

Basketry, dolls, jewelry, leather goods, pottery, rugs and wood carving are all included in the finest of Indian handicraft. Among the most skilled jewelry makers are residents of the Hopi and Santo Domingo pueblos and Indians of the Navajo and Zuni tribes. Albuquerqueans are fortunate in that the Santo Domingo pueblo is only a few miles north of the city and they have a store which has a large selection of their products. This is one exception to the rule against buying direct from the Indians.

Your best assurance of making good purchases is your ability to recognize hand-made articles, for these are the true products of the Indian craftsman and do not come from the machinery of mass production.



**BIG MOMENT** — Susanne Robbins, left, and Susanne Roberts, pose with Santa Claus at Salton Sea Christmas party. Fred Sayles, San Felipe Lodge manager, stood in for the venerable gentleman.

Christmas at home in Virginia with his parents took Hank Blane, 1331, way across the country for a holiday vacation.

Prior to her wedding, which is scheduled for tomorrow, Connie Weber was honored at a luncheon by her co-workers in 4133.

Baking and preparing for her big open house on Christmas Day was Helen Keeney's vacation fun. Helen is in 2416-1.

When W. H. Martin, 2418, took a week's vacation at Christmas he helped with the house cleaning, baby sitting, and even baked two cakes while Mrs. Martin went shopping.

Planting trees and painting his house is the way Verne L. Barclay, 2411-2, vacationed at home over New Year's.

Richard B. Crout, 2413, took his family to Fort Worth, Tex., for Christmas where they visited Mrs. Crout's relatives.

Fred Vishaway, 2472-3, spent his holiday vacation in Albuquerque when the icy highways prevented his proposed trip to Arizona.

The title of "official taster" of the Christmas goodies was bestowed upon R. T. Bennett, 2414-1, when he took his vacation at home over the holidays.

C. W. "Curly" Eggert, 2414-1, welcomed in the New Year while nursing a bad case of the flu. He's returned to work, but he's still talking about spending New Year's Eve in a sick bed.

A highlight of the winter social season was the recent party honoring Art Gregory, 5131-1, or so say the guests who included Bob Buehler, Warren Taylor, Don Robbins, Joe Beeler, all of 5133, and Jim Wilson, 5131.

Joe Beeler, 5133, Bob Buehler, 5133, Jim Wilson, 5131, and Art Gregory, 5131, recently attended the annual Southwestern Sectional Conference of the American Mathematical Association held at Las Cruces.

Herman Williams, 5132, is entertaining his parents from Xenia, Ohio, who arrived for the holidays and who will spend the month of January in Albuquerque.

Honored recently with a shower at the home of Pauline Prather was Corrine Bowlin, 4135. In turn, Pauline was honored at the home of Bernice Armour by Sandians in 4135. She is transferring from that department to 3220.

Eleanor Hughes slipped on the ice and fractured a leg and she's starting out the New Year with a cast and crutches but the injury hasn't kept her away from her job in 4135.

William Olheiser, Jr., 2415-2, and his wife took a two week motor trip to California recently. They visited relatives and friends in San Francisco and Los Angeles.

Holiday vacationers from 4135 included Max Hodges who visited his home in Utah, James Craig who went to Chicago, and Georgia Howard and her family who have returned from a wonderful jaunt to Mexico.

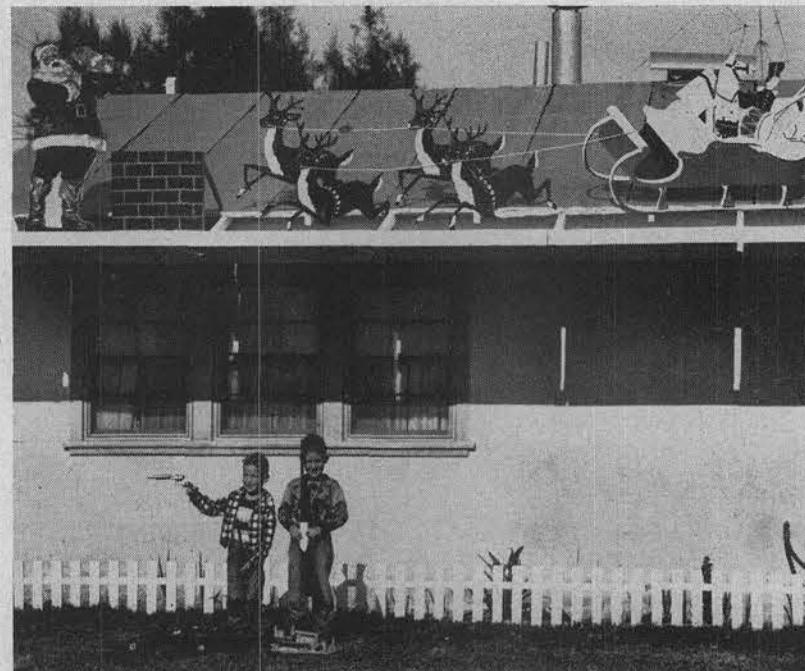
Her co-workers in 4135 wish a speedy recovery to Chrystal Brooks, who is hospitalized at W and C Hospital for surgery.

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Harriet Nickle, 2334, flew home to Joliet, Ill., to spend Christmas with her parents.

Tomme Richeson, 2334, moved into her new home in Hoffmantown just in time for the holidays.

## AROUND THE DEPARTMENTS



**BELOW SEA LEVEL** visit of Santa Claus gladdened the hearts of youngsters at Salton Sea this year. Jimmy and Dennis Schnarr, sons of Mr. and Mrs. Harry Schnarr, are pictured here before their parents' home on the Base.

New home owners include Joe Sterrett, 1331, who moved recently into a house at 724 Madison Ave., NE, and Henry Tebben, 1332, who now lives at 4220 Broadmoor Dr., NE.

Glenn Prentice, 1332, and his family spent the New Year holidays in Lubbock, Tex.

It was home to Decatur, Ill., for the holidays for 1331's Jim Duncan and his wife when they visited Jim's family.

Juanita Fidler, 2461-3, went to Des Moines, Ia., over the holidays and Irene Heck, also 2461-3, visited in Oklahoma City.

Marcia Chown, 2461-1, welcomed her husband, Bill, home from the Navy for the holidays. Bill is a Sandian on military leave and he formerly worked in 5211.

Sylvan and Hannah Winocur vacationed recently in California. Sylvan is in 1331 and Hannah is in 4222 (1923).

Her co-workers in 4135 wish a speedy recovery to Chrystal Brooks, who is hospitalized at W and C Hospital for surgery.

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**CHRISTMAS PARTY** for the youngsters at Salton Sea Base brought 54 of the younger set out to observe the occasion. Some of the guests are shown above: L to R, standing: Vicki Lamb, LeRoy Tone, Paula Wilson, Dianna Dee Demele, Charlie Demele, Susanna Robbins, Sally McNabney, Diana White, Jimmie Cain, Santa (Fred Sayles) Claus, Jimmie Nuefeld, C. J. Baldwin.

Hilderbrandt, Jimmy Bunch, Steven Medley and Susan Lynn Reynolds, standing in front row. Seated: Janne Robbins, Shiela White, Jill Pearson, Jerry Tone, Bruce Pennings, Larry Kemp, Randy McKinney, Peggy Sue Hilderbrandt, Bobby Richardson, Roberts, Dennis Baldwin and Kara Lee Baldwin.



JUANITA McDONALD ADMIRES a cup and saucer that came from Japan. Her growing collection of demi-tasse cups includes gifts from France, England, Germany and Japan.

## Fragile Cup and Saucer Collection Comes From Many Parts of the World

It's handy to have a few friends in foreign countries, particularly when you have a hobby of collecting foreign-made items. Juanita McDonald, AEC, found this out as her cup and saucer collection began to grow with gifts from her friends in England, Germany, France and Japan.

It all started about three years ago. Juanita received a fragile and lovely cup and saucer for her birthday. From that gift stemmed her desire to begin a collection of the tiny demi-tasse china and her friends abroad rallied to the cause.

She's received a delicate bone-china cup and saucer from England, and several ornate ones from the Orient with their intricate designs depicting a national legend or two. Still more arrived from Europe. Her husband, Ralph or "Mac" as everyone calls him, augmented her collection of cups and saucers with a matching set of vases for one par-

ticular unit, a Japanese-made kind of opaque porcelain with dragons in relief.

Besides her budding collection of the fancy demi-tasse cups, Juanita is acquiring attractive foreign-made figurines and pictures. "Mac" is really responsible for this hobby because of the pretty gifts he sent to her from Japan when he was stationed with the U.S. Marine Corps.

Another Japanese product, an unusual flower arrangement in a low bowl, was designed by Juanita herself from dried flowers processed by the Nipponees.

Juanita is justly proud of her cup and saucer collection and she treasures her "pretties" from abroad. "But you know," she remarks, "although this has turned out to be a hobby of mine, I've never bought one single thing to add to it. Every piece of it has been a gift from friends."

## What's My Line?

Her job is a service. She helps people help themselves and her job is an important one to persons in mathematics, chemistry, physics, electronics, business and other fields.



She helps provide the answers for many an important project. Much of her work is done while standing, but there is desk routine connected with it, too. If she didn't know her job many Sandians would have trouble finding the answers to their particular problems. What's her line? See page 4 for the answer.

## Geology Amateurs To Hear Professor Talk on Southwest

Tuesday the Albuquerque Rockhounds will hear a talk on "Archaeology in the Southwest," by Dr. Florence Hawley Ellis, associate professor of anthropology at the University of New Mexico.

The group will meet at 7:30, Church of Christ recreation room, Fifth Street and Marble Avenue, according to Ralph Calvert, 5132, the recently elected executive chairman of the group.

The Rockhounds club was formed about a year ago, Ralph reports, and has grown to include 75 members. All are interested in various phases of geology, mineralogy, or gemology. Members pay dues of \$2 per year and "Pebble Pups"—children not over 16—pay no dues.

About six field trips are planned by the group each year. These one-day trips are taken to locations where minerals or gem stone materials are known to exist.

Other Rockhounds from Sandia include John B. Hobart, 2543, and A. D. Hinds, 2543, one of the club's founders and a former member of the executive committee.

## That Infernal "Flu" —

Comments by Dr. F. G. Hirsch,  
Sandia Corp. Medical Director

There seems to have arisen a considerable amount of concern in people over the so-called influenza epidemic that is currently responsible for a great deal of illness in Albuquerque. I suppose the reason for the concern stems from the recollections of those of us who had some experience with the 1918 epidemic.

That one, of course, was one of the more serious of the great epidemics that sweep the world from time to time. It was responsible for a great loss of life due to the great frequency with which those cases became complicated by a severe and highly fatal type of pneumonia. Let one and all be reassured that this current affair is not at all the same thing.

The present epidemic has been ascertained to be due to the Influenza Virus, Type A. The current strain apparently is one of relatively low virulence. It can make you feel miserable for about a week, but you can count on recovery. This is not to deny that the first couple of days you will entertain doubts as to the desirability of putting up much of a scrap. Hardly any cases have had any complications associated with them. How much of this is due to the protective aspects of the various antibiotics being consumed by the populace, and how much is due to the inherently low virulence of the virus is speculative.

About the best thing is to lay low, take it easy, consume aspirin to the point of becoming as comfortable as possible, get a check by your family doctor.

## Sandialiers at ANAF Club

Songs—old and new—will be performed by the Sandialiers, the all-male chorus group headed by Terry Riggan, 1243, at the ANAF Club on Sandia Base, January 28, at 8 p.m.

KENNETH A. SMITH to division supervisor of 1916. Ken came to us in 1951 after a year with a local realty firm.

Ken's experience includes three years as an advertising manager for a Milwaukee bottling firm; five and a half years as Director of Personnel and Labor Relations for a Bay City, Mich., ship building company; and 18 months as a Sears-Roebuck Co. manager-trainee at Bay City. Ken has a B.S. in business administration from the University of Wisconsin.

ROBERT J. BLOUNT to division supervisor of 1925. Bob came here in 1950 with a Bachelor of Business Administration degree earned at the University of New Mexico. Before enrolling at the University Bob served for 10 months with the Air Force training in pre-flight at air bases throughout the country.

EUGENE K. BAKER to division supervisor of 1933. Gene joined the Corporation last March. Before coming here he owned and operated a drug company at Salt Lake City, Utah. Previous to opening this drug firm Gene was employed for 21 years with the Tracy-Collins Trust Company, Salt Lake City. Prior to leaving there he was a trust officer administering trusts and estates for the firm.

SAMUEL L. JOHNSON to division supervisor 1551. Sam came here in 1946 after working as a job superintendent with the R. W. Naugler Construction Co. of Bangor, Me., for a year and as a civil engineer with the Warren Bros. Roads Co. out of Cambridge, Mass., for two years. Sam was in the Army during the latter part of 1942-43 and returned to the University of New Mexico to complete a B.S. degree in civil engineering.

## News from the Field Of Atomic Energy

The Atomic Energy Commission and the American Cyanamid Co. have announced that construction is underway at Grand Junction, Colo., on a pilot plant to demonstrate new and cheaper methods of extracting uranium from ore. Frank H. McPherson, acting manager of the AEC's operations office, says the plant is scheduled to be in production by March 1. (New York Herald Tribune)

Dr. Frank J. Dixon, chairman of the department of pathology, University of Pittsburgh School of Medicine, has described some of the mysterious mechanisms that help the human body protect itself against disease. The process, uncovered by the clicking Geiger counters, is expected to help stretch the supply of gamma globulin to protect children against polio. Dr. Dixon and co-workers, using money provided by the AEC, have used radioactive iodine to try to uncover the protective mechanisms within the body. (Washington Post)

## G. I. News —

From Sandians in  
The Armed Forces

Sgt. Michael J. Hanrahan, formerly in 2232, visited friends here last week enroute to Camp Kilmer, N.J., where he expects to be discharged within a short time to return to Sandia. Mike has been with an Army artillery battalion of the Second Infantry Division in Korea for the past year. He is "tickled to death" to be back in the U.S.A. He entered the service in May, 1951, with the New Mexico National Guard.

## 121 New Sandians Joined Company In December

Twenty-two states provided Sandia Corporation 121 new employees during the month of December. Seventy-three men and 48 women were included in the newcomers. There were 98 married men and women in the new arrivals and they have 147 children.

Twenty-one of these new employees have earned degrees from 19 different colleges. Nine have bachelor of science degrees, six have earned the degree of bachelor of arts, three master of science degrees are held, one has a Ph.D., one a bachelor of mechanical engineering and one has earned a degree in law.

### Home States

Alabama 1, Arkansas 1, California 5, Colorado 3, Illinois 3, Indiana 6, Iowa 1, Louisiana 1, Michigan 2, Minnesota 2, Missouri 1, New Mexico 70, New York 4, Ohio 4, Oklahoma 2.

Pennsylvania 1, South Dakota 1, Tennessee 1, Texas 6, Utah 1, West Virginia 2, Wisconsin 3.

### Colleges Attended

Western State College, Loretta Heights College, East Central State Teachers College, Syracuse University, Hunter College, Colorado School of Mines, Purdue University, Southern Baptist Theological Seminary, Lehigh University, University of Minnesota.

New Mexico A & M, University of Illinois, University of Missouri, Marquette University, University of New Mexico, Florida State University, Oklahoma A & M, Davis and Elkins College, University of Michigan.

## PROMOTIONS

MAX K. LINN to section supervisor of 1923-1. Max joined us last March after four years teaching technical writing at the University of Iowa English department. Previously he did graduate work in English there and before that he was a draftsman and designer for three years



with Jack and Heintz, Inc., Cleveland, O. Max has a B.A. in English from Westminster College and he studied engineering at Carnegie Institute of Technology for two years.

WILLIAM H. LAWRENCE to section supervisor of 1923-2. Bill started with the Laboratory in 1948.

He worked three years previously at Los Alamos as an engineer. Bill also spent two years with the University of California at Oak Ridge as a physicist. For two years before that he was with Bethlehem Steel Shipbuilding division, San Francisco, as an expeditor. Bill has an A.B. in mathematics from San Jose State College.



SAMUEL L. JOHNSON to division supervisor 1551. Sam came here in 1946 after working as a job super-

intendent with the R. W. Naugler Construction Co. of Bangor, Me., for a year and as a civil engineer with the Warren Bros. Roads Co. out of Cambridge, Mass., for two years.

Sam was in the Army during the latter part of 1942-43 and returned to the University of New Mexico to complete a B.S. degree in civil engineering.

ROBERT W. DEVORE to section supervisor of 1541-1. Bob came to us in 1951 following a total of five years with General Electric Co.

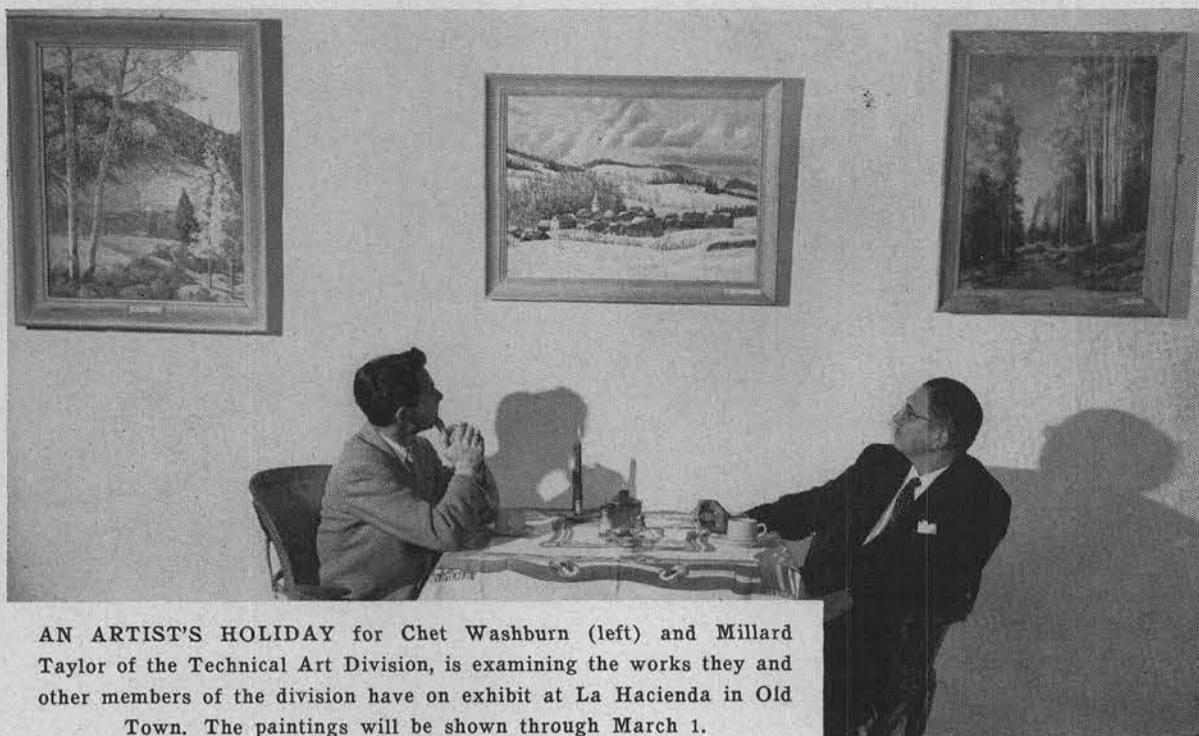


as a development engineer. He worked two and a half years at Schenectady and two and a half years at the GE Lamp Development Laboratories, Nela Park, Ohio. Bob is a Navy veteran of a year and a half with the Seabees as an engineering construction officer. He graduated from the University of Colorado with a B.S. in electrical engineering.

BILL W. SCOTT to division supervisor of 1922. Bill started at the Laboratory in 1948 immediately after his graduation from the University of New Mexico

where he studied business administration for three years. Prior to that Bill spent a total of two years with the General Supply Company in Albuquerque as a salesman. He also served for three years in the Army Air Corps in the crew of B-17's.





**AN ARTIST'S HOLIDAY** for Chet Washburn (left) and Millard Taylor of the Technical Art Division, is examining the works they and other members of the division have on exhibit at La Hacienda in Old Town. The paintings will be shown through March 1.

## Radio Engineers Regional Conference At U of New Mexico January 26 and 27

The New Mexico Section of the Institute of Radio Engineers will be host to guests from 11 western states during the 1953 Seventh Regional IRE Conference, to be held at Mitchell Hall on the campus of the University of New Mexico January 26 and 27. An outstanding feature of the Conference will be the keynote address to be delivered by Dr. J. W. McRae, vice president of the Bell Telephone Laboratories, and recently elected president of the IRE for 1953, at the Conference Banquet Monday evening, Jan. 26.

The Conference will feature two days of technical papers by speakers from all over the country, together with the largest exhibit of new electronic instruments and components ever to be shown in Albuquerque. For out-of-town visitors, a field trip to Los Alamos has been arranged for Wednesday, Jan. 28.

### Technical Papers Program

The technical papers program will include sessions on engineering education, design techniques, microwaves and propagation, guidance and control, miniaturization, computers, and a full day symposium on nuclear resonance techniques and applications.

The symposium on nuclear resonance will be the first on this subject to be sponsored by the Institute of Radio Engineers. This new research tool, for which the Nobel Prize in physics was given this year, uses the techniques of the radio engineer, and is destined to have an important future in the fields of chemical analysis, automatic process control, and computers. The symposium will be held both morning and afternoon on Tuesday, Jan. 27, and is expected to draw a large attendance of chemists and physicists, both locally and from the oil and chemical industries of the Southwest.

### Exhibits Planned

Of special interest to local electronic engineers will be the session on miniaturization, to be held on Tuesday afternoon, January 27. This will include speakers from the Signal Corps Electronic Laboratory, Cornell Aeronautical Lab., Bendix Pacific Division, Stanford Research Institute, and North American Aviation, and will cover recent advances in miniaturization and process circuitry, auto-sembly techniques, auto-fabrication, and design procedures for operation at high ambient temperatures.

The exhibits will comprise 48 booths in the Student Union Building and Mitchell Hall, and will show the products sold by 20 western distributors of electronic equipment. The exhibits will be open both days, on Monday from 10 to 5, and on Tuesday from 10 to 8.

### Social Program

Social events will include a cock-

### Four Free Dances On Program for Coronado Club

There are four free dances left on the Coronado Club calendar for this month plus a buffet-dance to be held on the 18th at \$2 per person.

Tonight Pancho Baird and his Santa Fe Rangers will call the tune at the square dance from 8 to 12. Saturday there will be an informal juke box dance from 9 to 1 with Al Jordan and his accordion in the Cocktail Lounge from 6 to 10 p.m.

### Arthur Murray

Another Arthur Murray dancing lesson will be given on the 20th from 8:30 to 10:30 and on Wednesday night Bingo players will take over the Club to vie for the big jackpot.

Duplicate bridge is scheduled for the 22nd and 29th and on Friday, the 23rd, Maurice Karnowsky will be at the piano in the Cocktail Lounge from 6 to 10 p.m.

### Al Jordan Performs

Don Lesman will bring his orchestra to the Club on Saturday, the 24th, to play from 9 to 1 and on the 30th Al Jordan will again perform on the accordion in the Cocktail Lounge.

On the last night of the month the Club will still be in action with an informal juke box dance underway in the ballroom.

### Credit Union Annual Meeting

The annual shareholders' meeting of the Sandia Laboratory Federal Credit Union will be held Friday, January 23, 1953, in La Caña Room of the Coronado Club at 7:00 p.m. All members are urgently requested to attend.

—FREE REFRESHMENTS—

### Four Employees See Service Together

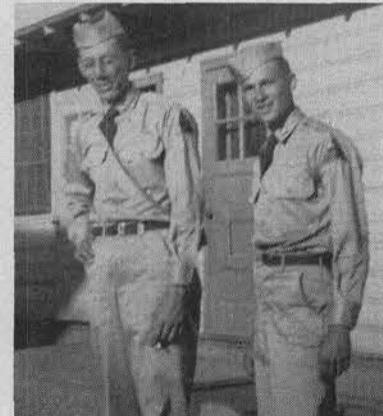
Home for the Christmas holidays were the "Four Draftsmen," Pvts. Marvin Ozmun, Bob Eisele, Tom Corrigan and John Campbell, all formerly of 1951.

The quartet signed in here in the fall of 1950, entering the first class



Marvin Ozmun

Sandia Corporation conducted for drafting trainees. They entered the Army together last September and, after taking basic training at Fort Leonard Wood, Mo., were assigned



Robert Eisele and John Campbell

to Fort Belvoir, Va., for advanced training in drafting.

They expect to be there until March and hope to remain together when they are reassigned.

### New Employees

A welcome is extended to the following who joined Sandia Corporation between December 24th and January 6th:

Jerome E. Ligocki	1211
John A. Rohrer	1231
Frederick Shoemaker, Jr.	1241
Thomas G. Stanley	1312
Stanford G. Cain	1321
Wilbur D. Connellley	1542
Irvin L. Moulton	1552
Harold A. Armstrong	1621
Edwin A. Seeburg	1623
Carolyn A. Tippit	1641
Donald R. Knapp	1731
Estanislado Torres, Jr.	1951
Gene W. Abbott	1955
Charles W. Herman	2122
John A. Garcia	2124
George M. Good	2124
James C. Southall	2124
Harold A. McIntyre	2126
James M. Kelly	2231
Candelario B. Torres	2234
Arthur B. Gilmore	2352
Charles H. Smithey	2419
Melba J. Otero	2462
Harry C. Olson, Jr.	2532
Dawn A. Clark	3151
Dana Tucker	3151
Mary J. Chester	3153
Marjorie A. Smith	3160
Matilda J. Bridenstein	4135
Hugh L. Tallman	4152
Celeste K. Gatling	4222
Cecilia S. Quinn	4222
Robert L. Burgess	5223
Alexander Fursa	5412
Robert M. Betz	6010

### Congratulations!

Mr. and Mrs. Duane Hillard, 4151-3, a son January 3—weight 9 pounds 7 ounces—name Michael Charles.

Mr. and Mrs. Milton J. Lesicka, 2481-1, a daughter January 4—weight 8 pounds 3 ounces—name Michelle Agnes.

Mr. and Mrs. Jack England, 2471, a son January 6—weight 7 pounds—name David Bruce.

Mr. and Mrs. D. P. Griego, 2472-3, a son December 6—weight 7 pounds 11 ounces—name Daniel.

Mr. and Mrs. John Cunningham, 5432, a daughter December 27—weight 5 pounds 10½ ounces—name Nancy Ruth.

Mr. and Mrs. Sam Schwartz, 5432, a daughter December 31—weight 7 pounds 15 ounces—name Joanne.

Mr. and Mrs. Art Eiffert, 1912, a daughter December 15—weight 6 pounds 11 ounces—name Michele Leigh.

Mr. and Mrs. Charles R. Koontz, 1932-2, a daughter December 30—weight 4 pounds 12 ounces—name Rebecca Lee.

Mr. and Mrs. Rodney Lord, 1932-2, a daughter January 5—weight 7 pounds 11¾ ounces—name Nancy Jane.

Mr. and Mrs. Randall Maydew, 5141, a daughter January 2—weight 7 pounds 3 ounces—name Jenan Louise.

Mr. and Mrs. A. Lamar McKay, Jr., 4152, a daughter January 4—weight 5 pounds 7 ounces—name Patricia Ann.

Mr. and Mrs. Cliff Rounds, 4153, a son December 30—weight 7 pounds 7½ ounces—name Michael Wayne.

Mr. and Mrs. R. W. Copeland, 2234, a daughter January 4—weight 5 pounds 8 ounces.

Mr. and Mrs. Bob Garcia, 3154, a daughter December 24—weight 6 pounds 8 ounces—name Carol Ann.

Mr. and Mrs. Harold Hanna, 3233, a daughter December 25—weight 6 pounds 6 ounces—name June Louise.

### Department News

Ralph Hendrix, 2232, was welcomed back last week after an extended illness.

A happy man on New Year's Eve was 2235's E. J. Whitmore who was visited by his son, Sgt. E. J. Whitmore, Jr., USMC, on leave from Camp Pendleton, Calif.

### Sympathy

Fellow employees extend their sympathies to Harold Neuhaus, 2414, whose wife died January 5 in Albuquerque following a lengthy illness. She is also survived by two children, Joan, 9, and Don Allen, 11. Burial was in Stanton, Illinois.

Sympathy is extended to David Gonzales, 2235, for the death of his sister January 8 in Albuquerque.

His fellow employees extend their sympathy to Lester Grisham, 5215, whose wife died last week in Albuquerque. Burial was in New York.

Sympathy is extended to the family of William U. Howard, a Sandia Corporation employee of two years, who died at his home Saturday, Jan. 10. Mr. Howard worked in 2123. He is survived by his wife, a daughter, a brother and two sisters.

Sandia Corporation employees extend their sympathy to the family of Charles A. Tinkham. Mr. Tinkham died at his home in Ojo Caliente, N.M., Friday, Jan. 9. He had been employed at Sandia since 1946 and at the time of his death was on leave from 5215.

### Weddings and Engagements

Our Lady of Belen Church was the setting January 10 for the marriage of Nellie Sanchez, 2461-3, to Raymond Sanchez, Jr., son of Mr. and Mrs. Raymond Sanchez of Belen. Nellie, who has been with the corporation for 13 months, is the daughter of Mr. and Mrs. Herman Sanchez, also of Belen. The couple will be at home in Albuquerque after a trip to Mexico.



Marilyn Murray, 4222 (3154), will be married late this month to A2/c Philip W. LaClair of Sandia Base, son of Mr. and Mrs. Clyde LaClair of the Panama Canal Zone. Marilyn, daughter of John Murray of Albuquerque, attended the University of California in Berkeley. Her fiance is a graduate of Bradley University, Peoria, Ill., where he obtained his B.A. in physics. Marilyn has been with Sandia Corporation for six months.



Miss Martinez

Nancy Martinez, 2460, and Fred Sanchez will be married January 31 in Sacred Heart Church in Albuquerque. His sister, Eva Sanchez, 2342, will serve as the bride's attendant. Nancy is the daughter of Henry Martinez, Albuquerque, and Fred is the son of Mr. and Mrs. Fred Sanchez, Sr., also of Albuquerque. Nancy has been with Sandia Corporation for three years and two months. Following a honeymoon trip to Mexico City, the couple will make their home here.

### What's My Line?

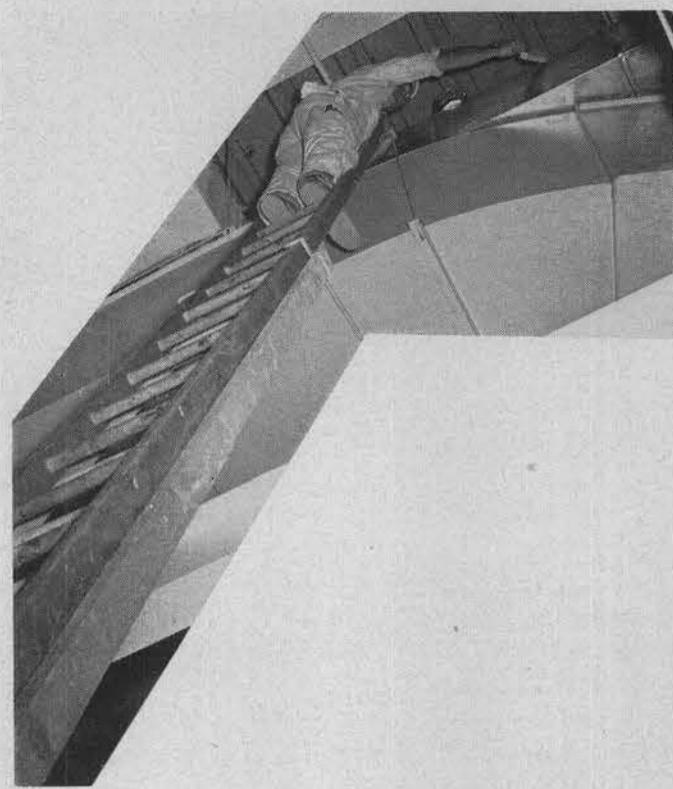


Lucile S. Marcrum is a librarian

Lucile is a librarian in 1921-2 where she assists other Sandians with their references and technical problems. She checks books in and out and notifies persons when the volume they have requested is returned to the technical library. Lucile has a B.S. degree in Education from Ohio State University, Columbus, Ohio, and worked for a time as a librarian in Niles, Ohio. Before she came to Sandia Corporation she was receptionist at the Medical Building on Girard Ave. She has been with Sandia Corporation 15 months.

# the Painters

Tricks of the Trade Revealed by Professionals  
Who Paint Small City of Buildings on the Base



Anyone who's ever decided to spend a week end painting a room on the theory that all they need is a brush, a can of paint and a healthy arm has probably run into all the classic errors that have beset painters since Eve decided to redecorate Eden.

Ronald E. George knows all about these painting problems. He's been wielding a brush for 20 years and in that time he's been faced with most of the situations that give painters nightmares. Ronald George now heads 2412-2, the section that handles painting for the Corporation and the AEC housing area.

"The amateur painter out to give his house the once over probably wonders why something that seems so easy should prove to be so tough," he says.

#### Know-How Necessary

"First of all he'll probably mix his own colors and wind up with a shade that's a long way from what he had in mind and which will be very hard to match. The right way is to pick the shade you want from your paint store's color chart. Then you simply buy white paint, squeeze in the specified tubes of oil coloring, stir and you're all set."

Paint Expert George has other tips for amateur painters. For instance: Use oil paint, flat and self sealing, everywhere except the kitchen and bathroom. In the kitchen and bathroom use hi-gloss or semi-gloss enamel with a heavy titanium content for better coverage.

Don't use anything bigger than a

4-inch bristle or nylon brush and on walls don't use anything smaller.

#### Ceiling Science

Hold your brush by the handle, not the heel, and paint with your wrist and shoulder. Stroke with your arm and you'll be exhausted after a dozen swings.

The amateur does a ceiling by loading his brush with paint and slapping it on madly while the stuff runs down his arm. The professional dips only an inch or so of his brush in the paint and only takes three or four strokes before dipping it in again.

Finally, clean the brush thoroughly in mineral spirits after every job and it will last indefinitely.

The variety and sheer volume of painting the section does is astonishing. Literally everything in the Corporation that wears a coat of paint has had the paint applied by the 14 men in 2412-2. In addition, every one of the 269 houses, apartment and dormitories in the AEC housing area has been painted at one time or another inside and out by Ron George's section.

#### Safety Practiced

Despite the hazards of the job, which run from working on tall extension ladders to operating with poisonous or inflammable paints, the group has never had a lost-time accident. Every possible safety precaution is used. A gas mask-like contraption is worn while spraying, a man always braces an extension ladder while another paints, protective clothing is worn around acids, smoking is forbidden near paint

fumes, woven cables support swing stage railed scaffolds, and they always try to find a substitute for red lead paint which may cause lead poisoning.

An idea of their volume of work is obtained from Ron's estimate that in an average day 50 gallons of paint is used. Fifty to 60 jobs of all types are handled in an average month and that means an average of three days per job. Of course this figure includes both the 15-minute and the two-week jobs.

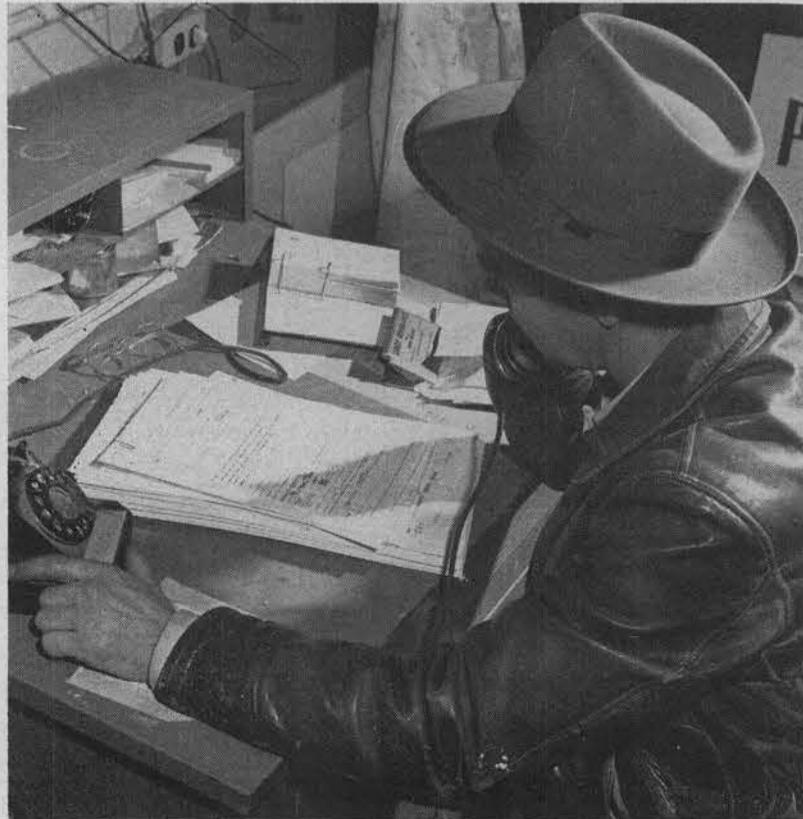
#### Some Jobs Tedious

The most tedious and at the same time the most delicate job is done by Ken Stiver, the highly skilled sign painter who makes up all the signs spotted throughout our streets and buildings. Ken has the assignment of performing the silk screen painting process. This requires a great deal of patience and intense concentration plus artistic ability.

So if you're planning to repaint the back bedroom, pause before you go in swinging and remember to take a tip from the men who know how.



**WATERFALL AND SPRAY** go together in an unusual way in the painting section. A face mask makes sure this man doesn't breathe in any of the mist-like paint spray and at the same time water pouring down the wall in the background, plus a suction fan, removes the paint from the air.



**THE BOSS** — Ron George has the responsibility of supervising an enormous amount of work plus the task of solving the problems of a score of jobs all at the same time.



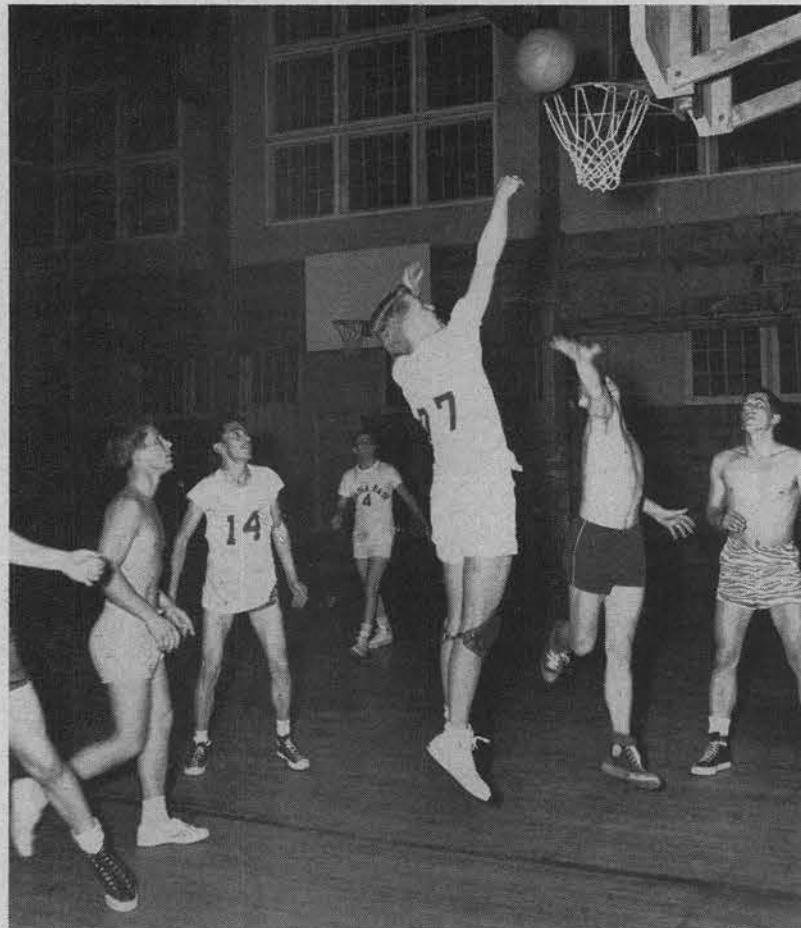
**SIGN PAINTER** Ken Stiver puts the finishing touches on one of the notices you see posted throughout the Corporation.



**A DELICATE JOB**, believe it or not, is painting house interiors. That's because the slightest imperfections are always noticed in living quarters. Here Shirley Miller (left) and Harold Kingsbury do a careful job on the ceiling of one of the AEC housing area homes.



**THE HARDEST JOB** in the painting trade, strangely enough, is covering a floor. It's easy at first, but it doesn't take long for the knees and back to start feeling the strain. Here Ed Eslinger shows how it should be done.



TWO POINTS are bucketed by Dean Thornberg of the Michigan Wolverines in a recent Sandia Employee game between the Wolverines and the Illini. The Wolverines downed the Illini 36-31.

## CLASSIFIED

Classified advertising is printed in the Sandia Bulletin as a service to Sandia Corporation employees and employees of the AEC on Sandia Base. There is no charge for publishing the advertisements. They must be submitted in writing and

### FOR SALE

**Television set**, 20", complete, less cabinet, \$150. Weber, ext. 25143 or Alb. 5-5090.

**Boxer**, thoroughbred, 6 mos. old, excellent watch dog and good with children, \$40. Leslie, Alb. 5-2011.

**1940 Hudson**, heater, new battery, clean, \$195. Dempsey, 3110 Monte Vista Blvd., Alb. 5-9386.

**"45" Harley Davidson motorcycle**, 1946, equipped with windshield, buddy seat, saddle bags and rack. Has one new tire and battery, \$225. See at El Nido Motel or telephone Alb. 2-2995 after 6. Gilbert.

**Crosley automobile**, '48. Make offer, Eldridge, Alb. 4-3119.

**4 lots**, 135' x 135'; 3 blocks north of Central, 3 blocks east of Juan Tabo. Tackett, ext. 32116.

**Encyclopedia**, 28-volume set, Funk and Wagnalls, 1948 edition, \$28. Miller, ext. 25246 or Alb. 5-7716.

**9 x 12 Bigelow-Sanford rug** and rug pad, \$75. Hobson, 621 Dakota SE, or Alb. 6-2383.

**Zenith Radio-Phonograph**, \$75; Electrolux, complete with attachments, \$20; 18th Century style blue sofa, \$90; rocking chair, \$3; metal utility table, \$2. Dusek, ext. 25247 or 33260.

**Chrysler V8**, 4-dr. Saratoga, 185 H. P. engine, power brakes, power steering, WW tires, tu-tone paint, R and H, low mileage, \$3295. Bryant, Alb. 6-0139 or ext. 25264.

**Steel bunk beds**, \$5, and Oak bunk beds, \$8, each with flat springs. Norwood, ext. 2-9241.

**Registered female parti-color cocker spaniel**, 6 mos. old, Morris, Alb. 5-8452.

**1951 Ford Custom DeSoto**, 20,000 miles, one owner, \$1995. Will trade for good pickup. Young, Alb. 2-7766 any day before 1 p. m., and from 9 to 5 Sundays.

**General Electric refrigerator**, 6 ft. \$65; Argus C-3 35-mm. camera with flashgun, leather case and filter adapter, \$35. Merrill, ext. 6275.

**Double Hollywood Bed**, boxspring and mattress, 1½ H. P. elec. motor; lawn seeder; refrigerator; gas stove. Reynolds, 817 Indiana SE, Alb. 6-0259.

**Dress trunk**, 36 x 23 x 22, \$18 or best offer. Liguori, ext. 22252 or Alb. 6-3613.

**Westinghouse refrigerator**, \$150; Cleveland gas range, \$70; 36" x 48" plate glass mirror, \$20. Spack, 800 LaVeta Dr. NE or ext. 5163 or Alb. 6-1354.

**Boston terrier puppies**, 6 wks. old, 1 male, 1 female, \$35 each. Kelly, 1028 Wilmore Dr. SE.

**1937 Chevrolet** with heater, Shaw, ext. 26158.

**Winchester 69 Sporter** 22 L. R., Weaver 329 scope, Winchester peep sight, sling swivels, carved stock, 2 clips, sheepskin case, \$45. Snodgrass, ext. 33134.

**1941 2-door Nash**, \$75. Vinovich, ext. 28249 or Alb. 6-0256.

**Wire recorder**, unit and bias OSC converter in aluminum case; uses radio amplifier and spkr. with 25 hours wire spools, only \$60. Lockhart, ext. 6259.

**'50 Studebaker convertible**, R & H, OD, directional signals, new top. Clean. Cash or terms. Socha, ext. 26252, or Alb. 5-3697.

**Red fox fur neckpiece**, almost new; also silver dyed fox "chubby" jacket, size 14, \$20 each; man's all wool overcoat, size 40, \$15. Rosendale, ext. 28234 or Alb. 2-1945. 2000 Meadow View Dr. NW.

**Full set of 7:60 x 15 tires**, will trade for 1 wheel trailer. Flowers, Alb. 6-1656.

**Used 24" boy's bike**, a "Schwinn," Eskridge, ext. 31277.

contain the name and base telephone extension of the advertiser. Each advertisement will be run one issue. Deadline: Friday noon, one week prior to date of publication.

**Partly-furnished house** and 5 lots, 303 General Patch SE, Allen, ext. 33236. See Saturday and Sunday.

**3-HP Fairbanks Morse motor**, \$75. Can use for irrigation well. Hensley, ext. 33236.

**1951 ½-ton Chevrolet pickup**, R and H, new tires and good motor, \$1300. Berlier, ext. 33236 or Alb. 4-3838.

**Electric refrigerator** with frozen food compartment, Stump, ext. 25166.

**Cine Perfex** 8 mm. movie camera, turret mount, magazine load, Wollensak F2:5 lens, \$40. Scharpen, ext. 26166 or Alb. 2-3296.

**Or trade**: Leica III C, 3.5 Elmar plus Leica Flash for Rollei or \$150, McKnight, ext. 6164.

**English Hercules Windsor bicycle**, 3-speed hub, used only a few months, \$40. Dike, ext. 22149 or 29285.

**Full grown brindle Boxer**. Must provide good home, lots of room. Very good with children. Inquire at 2215 Cardenas Dr. NE after 6. Hanna, ext. 7115.

**1939 Buick**, R and H, '49 motor, new tires and seat covers, \$200. Lopez, 8901 Cottonwood Rd. NE.

**4 rooms of furniture and misc. items**. Clean, Grisham, 3161 44th Place, Alb. 2-9286 or ext. 29245.

**Weston Master Light meter**, \$10. Bathroom hamper, almost new, \$5. Drury, ext. 24135.

**WANTED**

**Twin beds** with coil springs, Norwood, ext. 29241.

**Infant high chair**, play pen and baby bed. Roherly, ext. 32144.

**FOR RENT**

**Furnished 2-bedroom home** with garage. Near bases. Wright, 712 Valencia Dr. SE, Alb. 6-2954.

**3-room house**, bath and garage, furnished, all new appliances including wash machine, 1014 Aztec Rd. NW, Eldridge, Alb. 4-3119.

**2-3 bedroom home**. Inquire at 7521 Cutler Ave. NE. Close to school, has lawn and wall, \$90 a month, unfurnished. Regan, ext. 31248.

**MISCELLANEOUS**

**Single young woman**, does not drink or smoke, wants to rent a small apartment in NE or SE section, Albuquerque, price range around \$60 a month. Beth Barksdale, ext. 3-2228 or Alb. 5-7180 evens.

**Have 3-room apartment** to share with girl, \$32.50 a month, Patricia Callahan, 125 Mesa SE, ext. 32144 or Alb. 3-2769 after 5.

**RIDE WANTED**

From vicinity of 1028 Wilmore Dr. SE, just off Yale. June Kelly, ext. 32240.

**Want to join car pool** from Altura addition to tech area, H. A. Krieger, ext. 26263 or Alb. 5-8584.

**To south tech. gate** from vicinity of 9th and Coal. James Coleman, ext. 33236.

**From Bel Air**, 2913 Quincy St. NE (formerly Jackson St.) to south gate, 1st tech area. Betty Smith, ext. 33141 days.

**Two persons** want ride from vicinity 8901 Cottonwood Rd. NE, Corp. hours, Mary Ann Lopez, ext. 6241.

**1107 11th St. NW**, or vicinity 11th and Mountain Road. Corp. hours. Angie Fernandez, ext. 31157 or Alb. 2-2973 after 6.

**LOST**

**Double strand Turquoise necklace**. Reward, Marks, ext. 5137, Rm. B-16, Bldg. 802.

**Gold link bracelet** with heart initial "PWD" near Rainbow Beauty Salon on Carlisle or at Lovelace Clinic. Great sentimental value. Reward. Call Sandia Base, 6-4411, ext. 5194.

## Boilermakers Break First Place Tie, Edge Out Hoosiers

Highlighting the Sandia Employees' basketball games last week was the 29-27 victory of the Boilermakers over the Hoosiers to break a first-place tie between the two teams.

A closely fought game throughout, the Hoosiers held a two-point edge at the half, but weren't able to hold off the Boilermakers in the closing frames. Jim Lang, Bob Shockney and Wally Jungmeyer paced the victors' attack with 6 points apiece. Jim Winters took scoring honors for the losers with 8 points.

In other games played last week, the Wolverines took their first win of the season by downing the Illini 36-31; the Spartans were victors over the Hawkeyes 42-32; the Buckeyes edged out the Wildcats 32-31; the Gophers downed the Spartans 45-24 and the Hoosiers walloped the Illini 63-16.

## Bowling ALL-STATES LEAGUE

### Team Standings

Team	Won	Lost
1. Iowa	29½	22½
2. Oklahoma	29½	22½
3. New York	28	24
4. California	28	24
5. Wisconsin	26	26
6. Indiana	25	27
7. Illinois	22½	29½
8. Michigan	19½	32½

### Team and Individual

High team series: Wisconsin, New York, 2431.

High team game: Michigan, 886.

High individual series: Fellows, Haskell, 579.

High individual game: Gorry, 227.

### Top 10 Averages

High team series: Wisconsin, New York, 2431.

High team game: Michigan, 886.

High individual series: Fellows, Haskell, 579.

High individual game: Gorry, 227.

### Top 10 Averages

High team series: Apache, 3121.

High team game: Apache, 1184.

High individual series: Lloyd, 729.

High individual game: Lloyd, 279.

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